# Resource Summary Report

Generated by dkNET on Aug 3, 2026

## Anti-VGAT

RRID:AB_887871
Type: Antibody

### Proper Citation

(Synaptic Systems Cat# 131 002, RRID:AB_887871)

### Antibody Information

**URL:** http://antibodyregistry.org/AB_887871

**Proper Citation:** (Synaptic Systems Cat# 131 002, RRID:AB_887871)

**Target Antigen:** VGAT (cytoplasmic domain)

**Host Organism:** rabbit

**Clonality:** polyclonal

**Comments:** Applications: WB,IP,ICC,IHC,IHC-P. KO validated

**Antibody Name:** Anti-VGAT

**Description:** This polyclonal targets VGAT (cytoplasmic domain)

**Target Organism:** Human, Rat, Monkey, Mouse

**Defining Citation:** PMID:23386329, PMID:19827159, PMID:17347997, PMID:19226511, PMID:20737600

**Antibody ID:** AB_887871

**Vendor:** Synaptic Systems

**Catalog Number:** 131 002

**Record Creation Time:** 20260529T050004+0000

**Record Last Update:** 20260610T070407+0000

### Ratings and Alerts

No rating or validation information has been found for Anti-VGAT.

Warning: ***Extracted Antibody Information:*** "Briefly, slices were incubated in blocking solution containing 3% bovine serum albumin, 10% goat serum and 0.3% Triton in PBS (pH 7.4) for 1 h at room temperature. Primary antibodies rabbit anti-VIAAT (1:500; RRID: ***AB_887871***;"

***Extracted Specificity Statement:*** "Subsequently, slices were again rinsed in PBS, mounted on slides, air dried and cover slipped. Although, ***specificity*** of the anti-VIAAT antibody was previously shown in VIAAT knockout animals by the manufacturer (https://www.sysy.com/products/vgat/facts-131002.php), control experiments were performed by blocking the primary antibody with the corresponding control peptide (Catalog No. 131-OP, Synaptic Systems)."

Data was mined by Antibody Watch (https://arxiv.org/pdf/2008.01937.pdf), from ***PMID:29073893***
Applications: WB,IP,ICC,IHC,IHC-P. KO validated Warning: ***Extracted Antibody Information:*** "Primary antibodies rabbit anti-VIAAT (1:500; RRID: ***AB_887871***;"

***Extracted Specificity Statement:*** "Subsequently, slices were again rinsed in PBS, mounted on slides, air dried and cover slipped. Although, ***specificity*** of the anti-VIAAT antibody was previously shown in VIAAT knockout animals by the manufacturer (https://www.sysy.com/products/vgat/facts-131002.php), control experiments were performed by blocking the primary antibody with the corresponding control peptide (Catalog No. 131-OP, Synaptic Systems)."

Data was mined by Antibody Watch (https://arxiv.org/pdf/2008.01937.pdf), from ***PMID:29073893***
Applications: WB,IP,ICC,IHC,IHC-P. KO validated

## Data and Source Information

**Source:** Antibody Registry

## Usage and Citation Metrics

We found 58 mentions in open access literature.

**Listed below are recent publications.** The full list is available at dkNET .

Nicholson L, et al. (2025) Insulin resistance alters cortical inhibitory neurons and microglia to exacerbate Alzheimer's knock-in mouse phenotypes. bioRxiv : the preprint server for biology.

Vigo T, et al. (2025) Noradrenergic control of bone marrow and thymus by AgRP neurons is impaired in experimental multiple sclerosis. Cell reports, 44(11), 116556.

Avil??s EC, et al. (2025) ERG responses to high-frequency flickers require FAT3 signaling in mouse retinal bipolar cells. The Journal of general physiology, 157(2).

K??hler I, et al. (2025) Activation of GluN2D-containing NMDA receptors promotes development of axons and axon-carrying dendrites of cortical interneurons. Cerebral

cortex (New York, N.Y. : 1991), 35(6).

Pandey S, et al. (2025) A critical role of Neuroligin 2 C-terminus in OCD and social behavior. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(19).

Dorrego-Rivas A, et al. (2025) Strikingly different neurotransmitter release strategies in dopaminergic subclasses. eLife, 14.

Wagner VA, et al. (2025) Astrocytic GABA controls fidelity of temporal cortical processing in Fragile X Syndrome. Neurobiology of disease, 219, 107233.

Van Hook MJ, et al. (2024) Enhanced Synaptic Inhibition in the Dorsolateral Geniculate Nucleus in a Mouse Model of Glaucoma. eNeuro, 11(7).

Wei HR, et al. (2024) A microglial activation cascade across cortical regions underlies secondary mechanical hypersensitivity to amputation. Cell reports, 43(2), 113804.

Horton S, et al. (2024) Excitatory and inhibitory synapses show a tight subcellular correlation that weakens over development. Cell reports, 43(7), 114361.

Xu Y, et al. (2024) Microglial Refinement of A-Fiber Projections in the Postnatal Spinal Cord Dorsal Horn Is Required for Normal Maturation of Dynamic Touch. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(2).

Yan Y, et al. (2024) 3D bioprinting of human neural tissues with functional connectivity. Cell stem cell, 31(2), 260.

Manubens-Gil L, et al. (2024) Deficits in neuronal architecture but not over-inhibition are main determinants of reduced neuronal network activity in a mouse model of overexpression of Dyrk1A. Cerebral cortex (New York, N.Y. : 1991), 34(1).

Gil M, et al. (2024) Postweaning Development Influences Endogenous VPAC1 Modulation of LTP Induced by Theta-Burst Stimulation: A Link to Maturation of the Hippocampal GABAergic System. Biomolecules, 14(3).

Haggerty DL, et al. (2023) Prenatal methadone exposure selectively alters protein expression in primary motor cortex: Implications for synaptic function. Frontiers in pharmacology, 14, 1124108.

Yousefpour N, et al. (2023) Time-dependent and selective microglia-mediated removal of spinal synapses in neuropathic pain. Cell reports, 42(1), 112010.

Pons-Espinal M, et al. (2023) Deficits in neuronal architecture but not over-inhibition are main determinants of reduced neuronal network activity in a mouse model of overexpression of Dyrk1A. bioRxiv : the preprint server for biology.

Ruiz SA, et al. (2023) Contextual fear response is modulated by M-type K+ channels and is associated with subtle structural changes of the axon initial segment in hippocampal GABAergic neurons. AIMS neuroscience, 10(1), 33.

Hashimoto A, et al. (2023) Microglia enable cross-modal plasticity by removing inhibitory synapses. Cell reports, 42(5), 112383.

Vidyadhara DJ, et al. (2023) Dopamine transporter and synaptic vesicle sorting defects underlie auxilin-associated Parkinson's disease. Cell reports, 42(3), 112231.